


IN THE CLAIMS

1. (Previously Amended) A portable golf round data system comprising:

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- (a) a radiolocation receiver to receive at least one external locating signal
from which a user's current location on a golf course can be determined;
 - (b) data storage in a data collection unit for storing course data relating to
locations of one or more golf course features;
 - (c) at least one microprocessor in said data collection unit operatively
connected to said radiolocation receiver and to said data storage, said
microprocessor programmed to:
 - 1) determine said user's current location on said golf course from said
external locating signal; and
 - 2) dynamically generate a graphical view of a selected portion of said golf
course based on said user's current location, said dynamically
generated view including a portion of the golf course between the
user's current position and the cup for the hole currently being played;
and
 - (d) a graphic display to display said graphical view of said selected portion of
said golf course.

2. (Previously Amended) The system of Claim 1 wherein said course data is
transferred to said data collection unit via a wireless communication link.

3. (Original) The portable golf round data system of Claim 2 wherein the wireless
communication link is a cellular telephone data channel.

4. (Previously Amended) The system of Claim 1 wherein said course data is transferred to said data collection unit by a connection to a data processor external to said data collection unit.

5. (Previously Amended) The system of Claim 1 wherein said course data is transferred to said data collection unit from a data file accessible via the Internet.

6. (Previously Amended) The system of Claim 1 wherein said course data is transferred to said data collection unit by installing removable data memory media to said data collection unit.

7. (Previously Amended) The golf round data system of claim 1 wherein said dynamically generated view is from the current location of the user.

8. (Currently Amended) The portable golf round data system of Claim 1 wherein said graphic display is adapted to show the direction in which the user intends the ball to travel due to the next stroke graphical view further includes a visual indication representing the intended path or direction of the ball due to the next stroke.

9. (Previously Amended) The system of Claim 1 wherein said data storage further contains data relating to a predetermined skill level.

10. (Previously Amended) The portable golf round data system of Claim 9 wherein said predetermined skill level is based upon the user's past performance skill level.

11. (Previously Amended) The portable golf round data system of Claim 1 wherein said graphic display is adapted to show a user's position on a green, the cup in said

green, and a representation of forces on a ball on said green along a line between said user position and said cup.

12. (Original) The portable golf round data system of Claim 1 wherein said graphic display is adapted to show the time remaining to complete some selected portion of a golf round.

13. (Original) The portable golf round data system of Claim 1 wherein said graphic display is adapted to show the number of the hole currently being played.

14. (Original) The portable golf round data system of Claim 1 further including a stroke register to register each stroke taken by a user.

15. (Original) The portable golf round data system of Claim 14 further including stroke data storage for storing location data for each stroke taken until said data can be subsequently retrieved for further analysis or long term storage.


16. (Previously Amended) The system of Claim 14 wherein said graphic display is adapted to show the number of strokes said user has used on the current hole being played.

17. (Original) The portable golf round data system of Claim 14 wherein said graphic display is adapted to show a score card with the number of strokes used on each hole completed and the total used on the round.

18. (Previously Amended) The portable golf round data system of Claim 15 wherein said graphic display is adapted to show the location of at least one selected previous stroke in said stroke data storage and the resulting ball position after said stroke.

19. (Original) The portable golf round data system of Claim 14 wherein said stroke register includes a manually actuated switch contact.

20. (Previously Amended) The system of Claim 14 wherein said microprocessor is further adapted for voice recognition of at least one selected word.



21. (Currently Amended) The system of Claim 44 1 wherein said microprocessor is further adapted to receive and recognize telemetry signals emitted by telemetry equipped golf clubs.

22. (Original) The portable golf round data system of Claim 21 wherein said telemetry signals include sounds emitted by a telemetry equipped club when a stroke is taken with said club.


23. (Original) The portable golf round data system of Claim 21 wherein said telemetry signals include radio signals emitted by a telemetry equipped club when a stroke is taken with said club.

24. (Previously Amended) The system of Claim 15 wherein said location data is transferred from said data collection unit to a data processor external to said data collection unit.

25. (Previously Amended) The system of Claim 15 wherein said location data is transferred from said data collection unit to a data file accessible via the Internet.

26. (Previously Amended) The system of Claim 15 wherein said location data is transferred from the said data collection unit via a wireless communication link.

27. (Original) The portable golf round data system of Claim 26 wherein the wireless communication link is a cellular telephone data channel.



28. (Currently Amended) The system of Claim 9 1 wherein said ~~graphic display is adapted to indicate the region on the course within which the ball will probably rest following the user's next stroke taking into consideration a club selected by a user and said predetermined skill level~~ graphical view further includes a visual indication representing a probable landing area of the golf ball as a result of the next stroke.


29. (Previously Amended) The system of Claim 24 wherein said data processor includes means for generating a golf course plot with the location of all recorded strokes.

30. (Original) The portable golf round data system of Claim 24 wherein said data processor further includes means for printing commemorative certificates for predetermined events.

31. (Currently Amended) The portable golf round data system of Claim 1 wherein said ~~graphic display is adapted to show a user information on the break of a putt from a straight line extending from said user's position on a green to the cup in said green~~

graphical view when the user's current location is on a green includes a visual indication of the amount and direction that the golf ball will break on the next putt.

32. (Previously Amended) A cellular radiotelephone comprising:

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- (a) a cellular radio transceiver to communicate with a cellular network;
 - (b) a radiolocation receiver for receiving at least one external locating signal from which a user's current location on a golf course can be determined;
 - (c) data storage operatively connected to said cellular radio transceiver for storing data relating to the location of at least one golf course feature, wherein said data relating to the location of said at least one golf course feature is received via said cellular network from said cellular radio transceiver;
 - (d) a processor to perform calculations using said user's current location and the location of at least one golf course feature to dynamically generate location dependent course information; and
 - (e) a display to display said location dependent course information.

33. (Previously Amended) The cellular radiotelephone of Claim 32 wherein said display is adapted to show the club the user intends to use for the next stroke.

34. (Previously Amended) The cellular radiotelephone of Claim 32 wherein said data storage further contains data relating to said user's past performance.

35. (Original) The cellular radiotelephone of Claim 32 wherein said display is adapted to show the time remaining to complete some selected portion of a golf round.

36. (Original) The cellular radiotelephone of Claim 32 wherein said display is adapted to show the number of the hole currently being played.

37. (Original) The cellular radiotelephone of Claim 32 further including a stroke register to register each stroke taken by a user.

38. (Original) The cellular radiotelephone of Claim 37 further including stroke data storage for storing location data for each stroke taken until said data can be subsequently retrieved for further analysis or long term storage.

39. (Previously Amended) The cellular radiotelephone of Claim 32 wherein said display is adapted to show the number of strokes a user has used on the current hole being played.

40. (Original) The cellular radiotelephone of Claim 37 wherein said stroke register includes a manually actuated switch contact.

41. (Previously Amended) The cellular radiotelephone of Claim 37 wherein said data processor is further adapted for voice recognition of at least one selected word.

42. (Currently Amended) The cellular radiotelephone of Claim ~~37~~ 32 wherein said data processor is further adapted to receive and recognize telemetry signals emitted by telemetry equipped golf clubs.

43. (Original) The cellular radiotelephone of Claim 42 wherein said telemetry signals include sounds emitted by a telemetry equipped club when a stroke is taken with said club.

44. (Original) The cellular radiotelephone of Claim 42 wherein said telemetry signals include radio signals emitted by a telemetry equipped club when a stroke is taken with said club.

45. (Previously Amended) The cellular radiotelephone of Claim 38 wherein said stroke data is transferred from the said cellular radiotelephone to a remote computer via a cellular telephone data channel.

46. (Previously Amended) The cellular radiotelephone of Claim 38 wherein said stroke data is transferred from said cellular radiotelephone to a data processor external to said cellular radiotelephone.

47. (Previously Amended) The cellular radiotelephone of Claim 38 wherein said stroke data is transferred from said cellular radiotelephone to a data file accessible via the Internet.

48. (Original) The cellular radiotelephone of Claim 46 wherein said data processor further includes means for generating a golf course plot with the location of all recorded strokes.

49. (Original) The cellular radiotelephone of Claim 46 wherein said data processor further includes means for printing commemorative certificates for specified events.

50. (Previously Amended) The cellular radiotelephone of Claim 32 wherein said display is adapted to show a user the probable distance a ball will travel when struck by a selected club.

51. (Currently Amended) The cellular radiotelephone of Claim 32 wherein said display is adapted to show a user information relating to the break of a putt from a straight line extending from said user's position on a green to the cup in said green gives a visual indication of the amount and direction that the golf ball will break on the next putt.

81. (Previously Added) The cellular radiotelephone of Claim 32 wherein said data processor is external to said cellular radiotelephone and said data processor is operatively connected to said cellular radiotelephone through wireless data transfer.

82. (Previously Added) The cellular radiotelephone of Claim 32 wherein at least a portion of said data storage is external to said cellular radiotelephone.

83. (Previously Added) The cellular radiotelephone of Claim 32 wherein said display is a proportional graphical map.

84. (Previously Added) The cellular radiotelephone of Claim 32 wherein said display is an alpha numeric display.


85. (Previously Added) The cellular radiotelephone of Claim 32 wherein a user's data is uploaded via said cellular network and said cellular radio transceiver.

86. (Previously Added) The system of Claim 1 wherein said graphical view includes a plurality of said golf course features of said golf course.

87. (Previously Added) The golf round data system of claim 1 wherein said graphical view includes an indication of the user's current location.

88. (Previously Added) The cellular radiotelephone of claim 32 wherein the location dependent course information comprises the distance from the user's current location to the green.

89. (Previously Added) The cellular radiotelephone of claim 32 wherein the location dependent course information comprises a graphic representation of a selected portion of the current hole being played.



90. (Previously Added - Currently Amended) The cellular radiotelephone of claim 89 wherein the graphic representation includes ~~a probable landing zone for a golf ball on the next stroke taken by the user~~ a visual indication representing a probable landing area of the golf ball as a result of the next stroke.

91. (Previously Added) The cellular radiotelephone of claim 89 wherein the graphic representation includes at least a portion of the green.

92. (Previously Added) The cellular radiotelephone of claim 91 wherein the graphic representation includes a representation of the forces acting on a golf ball.

93. (Previously Amended) The golf round data system of claim 1 wherein said dynamically generated view is from the vantage point of the user.

94. (New claim) The golf round data system of claim 89 wherein the graphic representation includes a visual representation representing the intended path or direction of the golf ball due to the next stroke.

95. (New claim) The golf round data system of claim 90 wherein the visual indication of the probable landing area is a closed geometric figure encompassing an area in which a defined percentage of shots is likely to land.

96. (New claim) The golf round data system of claim 28 wherein the visual indication of the probable landing area is a closed geometric figure encompassing an area in which a defined percentage of shots is likely to land.